

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Babak Fakharpour

GENERAL INFORMATION:

Name:	Southwire Company
Address:	1987, State Route 271 North, Hawesville, Kentucky 42348
Date application received:	June 13, 2003
SIC/Source description:	3355/ Secondary Aluminum Production Plant
Source ID #:	21-091-00009
Source A.I. #:	44199
Activity #:	APE20040001
Permit number:	V-08-020

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy) ⁽²⁾	Potential (tpy) ⁽¹⁾
PM/PM ₁₀	29.029	184.73 /165.86
SO ₂	0.179	303.89
NO _x	35.06	73.12
CO	7.883	18.28
VOC	11.29	25.95
LEAD	0.0	0.0
Total HAP > 10 tpy	8.91	81.26
HCl (7647-01-0)	N/A	2.02
Chlorine (7782-50-5)	N/A	27.29
HF (7664-39-3)	N/A	12.13

Notes:

- (1) Please refer Appendix A of the Statement of Basis for detailed emission calculations (Pages 1 through 13).
(2) Actual emissions are based on Emissions Inventory System report for 2004.

SOURCE PROCESS DESCRIPTION:

Southwire Company is a secondary aluminum production plant. The primary activity at the plant is to process aluminum billets, sows, and ingots into finished specialty rod and cable. There are three (3) aluminum rod mills, one (1) cable mill and two (2) strip mills. Rod mill #1 consists of two (2) melting furnaces and two (2) holding furnaces, rod mill#2 consists of one (1) melting furnace and two (2) holding furnaces and rod mill#3 consists of two (2) melt/hold furnaces (dual purpose furnaces). Two (2) strip mills consist of two (2) strip machine annealing ovens. The melting and hold furnaces serve to melt, through flux addition, the ingots or sows for further processing into rod or cable. Five (5) annealing ovens alter the products to desired consumer specifications. Rod is used by Southwire and other customers to produce electrical wire and specialty products such as insect screening, welding wire, and nails. Bare overhead conductors, which are cables stretched above the ground that carry electricity from the generating plant to transformers near homes, are also produced.

The Southwire Company plant is located adjacent to Century Aluminum of Kentucky LLC, source I.D. # 21-091-00004. The Century Aluminum plant is a primary aluminum reduction source that produces aluminum billets, ingots, and sows for further consumer use, and also supplies molten aluminum in crucibles to Southwire Company. Both plants are considered by the Kentucky Division for Air Quality and the US EPA Region 4 to be one source as defined in 401 KAR 51:017, Prevention of Significant Deterioration (PSD) of air quality. Each source is subject to 401 KAR 51:020 and will be issued individual Title V operating permits. Pursuant to the respective Title V permits, each permittee is responsible and liable for their own violations unless there is a joint cause for the violations.